

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 78-10

WASTE DISCHARGE REQUIREMENTS FOR:

SHELLMAKER, INCORPORATED  
HYDRAULIC MAINTENANCE DREDGING AND SPOILS DISPOSAL  
PORT SONOMA, SONOMA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Shellmaker, Incorporated, (hereinafter called the discharger) submitted a report of waste discharge dated January 3, 1978.
2. Shellmaker, Inc. currently operates Port Sonoma, a 40 boat marina on the east side of the mouth of the Petaluma River between Sears Point Road (State Route 37) and the Northwestern Pacific Railroad. The discharger has excavated a 3000 foot channel adjacent to his existing marina and has breached a dike so as to fill the channel which is to provide berthing for an additional 360 boats. Waters within the marina are considered waters of the State. On July 19, 1977, the Board adopted Order No. 77-109 which prescribes waste discharge requirements for the maintenance of water quality within the marina and for proper disposal of sewage for the entire planned development.
3. The discharger proposes to perform an initial one-time clean-up dredging, largely in the vicinity where the dike was breached, involving 25,000 cubic yards of dredged material and annual maintenance dredging not to exceed 4,000 cubic yards yearly thereafter. Hydraulic dredging methods will be used with dredged material from the clean-up operation to be disposed of at a 24 acre upland site adjacent to the marina and with annual dredged spoils to be placed in a discrete 4.3 acre upland site located within the boundaries of the 24 acre site as shown in Attachment A incorporated herein and made a part of this Order. The land disposal site is on Shellmaker Inc. property which is devoid of wetland vegetation. Overflow from the disposal site will be controlled by a weir and discharged into a drainage ditch on the east side of Shellmaker Inc. property. The supernatant will be pumped through a return pipe for some 600 feet, and discharged, at the rate of approximately 1.3 million gallons per day (mgd), into the marina as shown in Attachment A.
4. The Board, in April 1975, adopted a Water Quality Control Plan for the San Francisco Bay basin. The Plan contains water quality objectives for the Petaluma River and for San Pablo Bay.

5. The beneficial uses of the Petaluma River and San Pablo Bay include:
  - a. Recreation
  - b. Navigation
  - c. Fish migration and habitat
  - d. Habitat and resting for waterfowl, migratory birds and certain rare and endangered species
  - e. Industrial water supply
  - f. Commercial fishing and shellfish harvesting
6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
7. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
8. The County of Sonoma has prepared a final environmental impact report dated May 1974 in accordance with the California Environmental Quality Act (Public Resources Code Section 2100 et. seq). The project, as approved by Sonoma County, will cause a significant effect on the environment in that maintenance dredging will temporarily degrade water quality. The Discharge Prohibitions, Water Quality Limitations and Provisions of this Order will mitigate or avoid this adverse impact.

IT IS HEREBY ORDERED, to achieve the water quality objectives and prohibitions contained in the Water Quality Control Plan that the discharger shall comply with the following:

A. Effluent Limitations

1. The wastewater overflow as discharged to waters of the State from the land disposal area shall meet the following quality limits at all times:
  - a. Settleable matter 1.0 ml/l-hr, maximum
  - b. pH 6.5 minimum, 8.5 maximum

B. Receiving Water Limitations

1. The dredging, treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The dredging, disposal of waste or wastewater return flow shall not cause:
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place more than 100 feet from the dredge and 200 feet from the point of discharge of return flow;
  - b. Bottom deposits or aquatic growths in waters of the State at any place;
  - c. Discoloration beyond present natural background levels in waters of the State at any place more than 100 feet from the dredge and 200 feet from the point of discharge of return flow;

d. Visible floating, suspended, or deposited oil or other products of petroleum origin in waters of the State at any place;

e. Waters of the State to exceed the following limits of quality at any point:

Dissolved Oxygen      5.0 mg/l minimum

When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.

pH      A variation from natural ambient pH by more than 0.5 pH units.

3. The turbidity of the waters of the State at any point beyond 200 feet from the point of discharge of the return flow to increase above background levels by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 units	5 Units, maximum
50-100 units	10 Units, maximum
>100 units	10% of Background, maximum

C. Prohibitions

1. Silt, sand, soil, clay or other earthen materials from dredging, construction, or any other onshore operation in quantities sufficient to cause deleterious bottom deposits or turbidity or discoloration in excess of natural background levels in surface waters are prohibited.
2. The berms around the land disposal site shall be constructed so as to contain the dredged material at all times. A discharge of the return flow from the disposal site at any other point than that shown in Attachment A is prohibited.
3. The supernatant discharged to the drainage ditch on the east side of the land disposal site shall not be allowed to flow in that ditch beyond the return pump shown in Attachment A.
4. Dredging in the marina is prohibited during the period from May 15 to October 1.

D. Provisions

1. Dredging operations shall cease immediately whenever violations of requirements are detected by the self-monitoring program and operations shall not resume until alternative methods of compliance are provided.

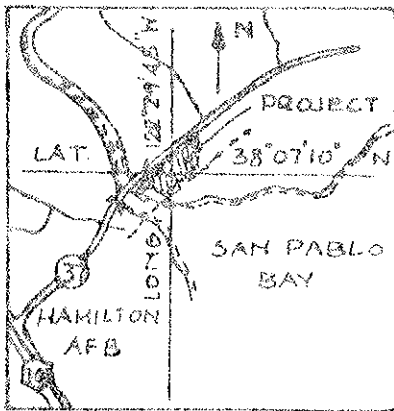
2. The discharger shall comply with all sections of this Order immediately upon commencement of dredging operations and overflow.
3. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 73-16. (Reference: Section 13267(b) and 13263, California Water Code.)
4. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
5. The discharger shall permit the Regional Board:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept,
  - b. Access to copy any records required to be kept under terms and conditions of this Order,
  - c. Inspection of monitoring equipment or records, and
  - d. Sampling of any discharge.
6. The discharger shall maintain in good working order and operate efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on February 21, 1978.

FRED H. DIERKER  
Executive Officer

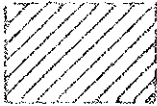
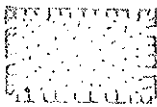

Attachments:

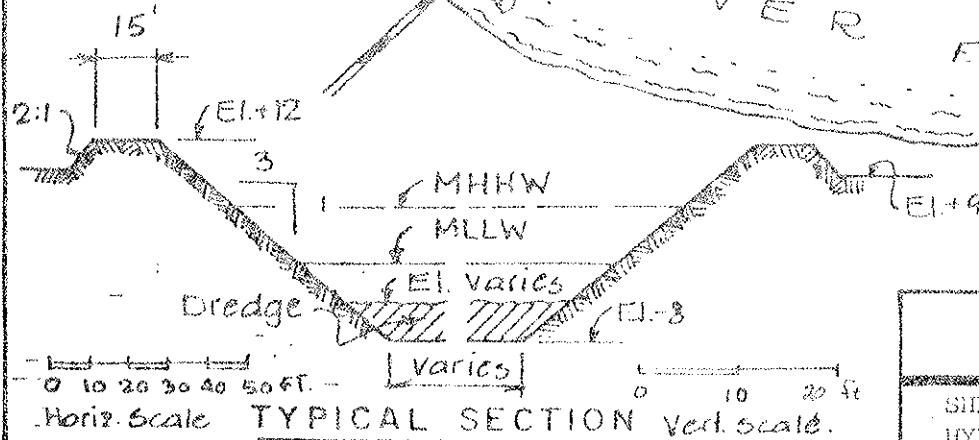
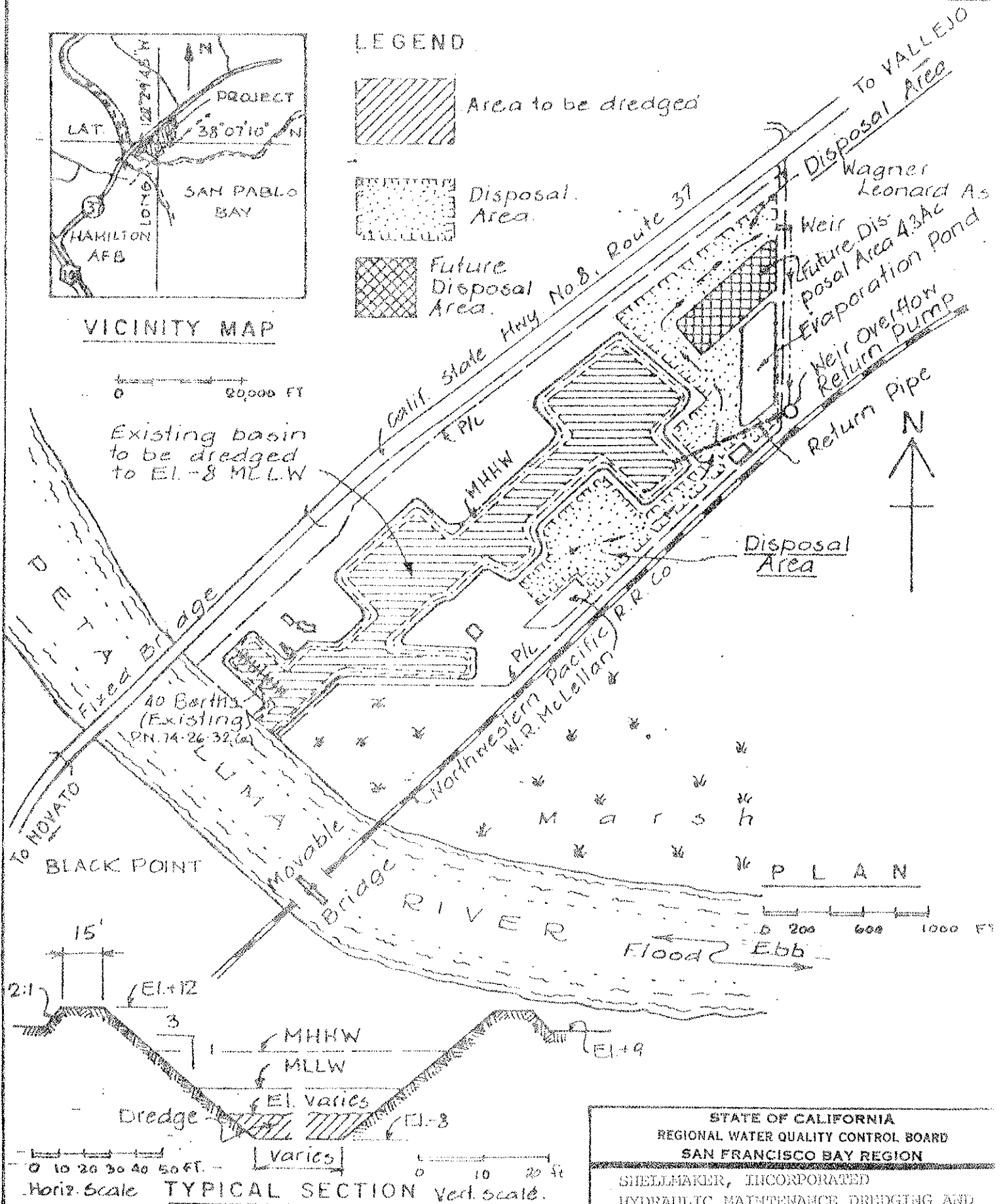
Map  
Self-Monitoring Program



VICINITY MAP

LEGEND

-  Area to be dredged
-  Disposal Area
-  Future Disposal Area



STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SHELLMAKER, INCORPORATED  
HYDRAULIC MAINTENANCE DREDGING AND  
SPOILS DISPOSAL

PORT SONOMA, SONOMA COUNTY

ATTACHMENT A ORDER NO. 78-10

DRAWN BY: DATE: DRWG. NO.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

Shellmaker, Incorporated

Hydraulic Maintenance Dredging and Spoils Disposal

Port Sonoma, Sonoma County

ORDER NO. 78-10

CONSISTS OF

PART A

AND

PART B

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM FOR:

SHELLHAGER, INCORPORATED  
HYDRAULIC MAINTENANCE DREDGING AND SPOILS DISPOSAL  
PORT SONOMA, SONOMA COUNTY

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board,
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge,
3. To develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pre-treatment and toxicity standards, and other standards, and
4. To prepare water and wastewater quality inventories.

B. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

I. Effluent - Hydraulic Dredging Operation

<u>Station</u>	<u>Description</u>
E-1	The point of discharge where the wastewater overflow enters the drainage ditch.

<u>Station</u>	<u>Type of Sample and Frequency</u>	<u>Analyses</u>	<u>Units</u>
E-1	Grab sample during the last hour of dredging each day, daily throughout the project's duration when overflows occur.	Settleable Matter  pH	ml/l-hr  units

II. Receiving Water - Overflow Area

<u>Station</u>	<u>Description</u>
C-1	At a point in the marina in the wastewater plume located 100 feet from the point of discharge.
C-2	At a point in the marina in the wastewater plume located 250 feet from the point of discharge.

<u>Station</u>	<u>Description</u>
C-R	At a point in the Petaluma River approximately 200 feet upstream from the confluence of the Petaluma River and port Sonoma Marina.

<u>Station</u>	<u>Type of Sample &amp; Frequency</u>	<u>Analyses</u>	<u>Units</u>
All C Stations	Grab samples shall be taken during periods of overflow and collected twice weekly at periods of low tide.	Dissolved Oxygen pH (electro-metric) Turbidity Standard Observations**	mg/l units JTU

\*\*Standard Observations, shall be made when grab samples are taken at all C Stations to include:

- a. Floating and suspended materials of waste origin, (to include oil, grease, algae, and other macroscopic particulate matter) presence or absence, source, and size of affected area.
- b. Discoloration and turbidity: description of color, source, and size of affected area.
- c. Odor: presence or absence, characterization, source, and distance of travel.
- d. Time and height of low tides corrected to nearest location for the sampling date and time of sample and collection.
- e. Water and sampling depths.

### III. Land Observations

Standard observations\*\*to be taken daily throughout the life of the project along the perimeter levee of the dredge disposal impoundment facility.

\*\*Standard observations, including:

- a. Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show any affected area on a sketch.)
- b. Odor: Presence or absence, characterization, source, and distance of travel.
- c. Evidence of low points in levee resulting in overflow of water other than described in Report of Waste Discharge. Low points shall be filled immediately with appropriate fill material.



C. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Report by telephone to the Regional Board five days ahead of the scheduled date of commencement of each annual maintenance dredging operation.

2. Violations of Requirements

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) Maintenance work, power failure, or breakdown of waste treatment equipment, or
- (b) Accidents caused by human error or negligence, or
- (c) Other causes, such as acts of nature,

The discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

3. Self-Monitoring Reports

Written reports shall be submitted regularly for each calendar week during dredging operations by Wednesday of the following week.

The reports shall be in letter form, and shall specifically cover each point in the Monitoring Program. Any violations shall be clearly identified, and actions taken or planned for correcting violations shall be included. Monitoring reports shall be signed:

- (a) In the case of corporations, by a principal executive officer at least at the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates, or
- (b) In the case of a partnership, by a general partner, or
- (c) In the case of a sole proprietorship, by the proprietor.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

I, Fred H. Diarker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 78-10.
2. Has been ordered by the Executive Officer on February 21, 1978, and becomes effective immediately.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER  
Executive Officer